	SENATE NATURAL RESOURCES
	EMPTIBHT NO. 3
	DATE Feb. 4, 2009
tan	a BILL NO. SB 297

SB 297 Mapping Sand and Gravel Resources in Montana

Gravel **quality**, **quantity**, and **accessibility** are the main controls on the development of gravel pits.

The **quality** of gravel is determined by the lithology or types of rocks that make up the gravel as well as the grain-size distribution (sorting) within the deposit.

Materials such as shale, siltstone, or certain volcanic rocks make for poor quality gravel because of physical properties and/or potential for undesirable chemical reactions.

Well-indurated limestone and quartz-rich sediments and some types of coarse-grained igneous rock make for high-quality gravel.

The **<u>quantity</u>** or total volume of gravel must be sufficient to warrant the investment of equipment and infrastructure to sustain a sand and gravel operation.

Accessibility includes a variety of issues:

the deposit must be at or near the surface;

- transportation distance: costs are generally a major factor in cost of gravel; adding a few miles to the haul distance will greatly increase the delivered cost of the gravel.
- relative location: gravel deposits in riparian areas, adjacent to subdivisions, etc. are likely to run into opposition for development.
- deposit thickness: the 3-dimensional shape of a gravel deposit also affects potential for development; a 5-foot thick deposit obviously requires much more surface disturbance than a 50-foot thick deposit in order to produce the same amount of product.

SB297 will:

- establish a Sand and Gravel Deposit Program within the Montana Bureau of Mines and Geology (MBMG) to systematically investigate Montana's sand and gravel resources,
- b) establish an account to accept "gifts, grants, reimbursements, allocations from any source, and any interest earned" for the purpose of conducting investigations, and
- c) have the MBMG present the results of each investigation to
 - (1) the counties included in the investigation;
 - (2) the Education and Local Government Interim Committee; and
 - (3) the Environmental Quality Council.

